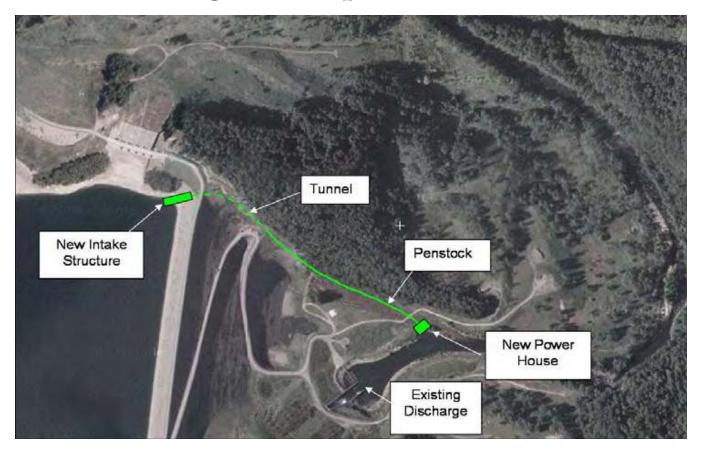
# Proposed Hydroelectric Facility Jennings Randolph Dam / Reservoir



- New Intake Structure (redundant and independent)
  - Tunnel & Penstock (piping to powerhouse);
  - Powerhouse (2 turbines, 13 megawatts); and
    - Transmission Line (not shown)

## **Current Operations**

- Controlled by Army Corps of Engineers
  - Flood Control
    - About 28% of reservoir (above normal operating limit) is for flood control
  - Downstream Water Supply
    - About 33% of reservoir is owned by water suppliers
    - Only two releases have been made for water supply, one was to dilute pollution downstream
    - Typical Release Amounts:
      - 300 cfs (target);
      - 200 cfs (low flow);
      - 120 cfs (drought conditions)
  - Improve Water Quality of North Branch Potomac
    - About 39% of reservoir is for water quality
    - Releases for water temperature (55° F), D.O. and pH
  - Recreation
    - Prearranged Releases (when excess water is available)
      - Fishing via wading and boating
      - Whitewater boating

### **FERC Approved Studies**

- Water Quality
  - Modeling of the proposed intake structure (to ensure it can provide desired water quality releases)
- Fish Entrainment and Impingement
  - Analysis of expected fish entrainment (at the intake structure)
- RTE and Special Status Species
- Wetland Mapping and Characterization
- Hydraulic Modeling
  - Modeling to predict any changes that may result from discharging water at the new location

# Releases Will Not Change

- ACOE will continue to decide when releases occur and how much water will be released;
- New intake structure is being modeled so it's capable of meeting the same water quality parameters as the ACOE's intake structure;
- Project will only operate when water is available

## Hydraulic Study

- Changes in flows / velocities
- Potential for stream bank erosion
- Changes in water depth

\* to determine possible affects on discharges of water from proposed location vs. current location; affect on fish (including trout); etc.

#### FERC Licensing Timeline

- March 19, 2008 Applicant filed their Notice of Intent / Pre-Application Document
- <u>March 2008 to January 2009</u> Applicant, FERC and Stakeholders worked on Study Plans
- February 15, 2009 FERC issued their Study Plan Determination
- <u>2009 through Present</u> Completing Studies
- June 9, 2010 Applicant to request 401 water quality certification from MD and WVA
- October 11, 2010 FERC will issue Environmental Analysis
- April 24, 2011 FERC to issue license order